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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/016,740 10/30/2001		Gregory C. Kime	42390P12158	5450	
8791	7590 02/22/2006		EXAMINER		
	SOKOLOFF TAYLOI	STRANGE, AARON N			
SEVENTH I			ART UNIT	PAPER NUMBER	
LOS ANGE	LES, CA 90025-1030	2153			

DATE MAILED: 02/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
Office Action Summary			740	KIME ET AL.				
			er	Art Unit				
		Aaron S	strange	2153				
Period fo	The MAILING DATE of this communic or Reply	ation appears on	he cover sheet with the	correspondence a	ddress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu period for reply is specified above, the maximum stature re to reply within the set or extended period for reply we pely received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF 137 CFR 1.136(a). In no nication. tory period will apply and ill, by statute, cause the a	THIS COMMUNICATIO event, however, may a reply be tindependent of the will expire SIX (6) MONTHS from application to become ABANDONE	N. mely filed the mailing date of this ED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	on 07 November	2005					
•	,	o)⊠ This action is						
<i>,</i> —	· · · · · · · · · · · · · · · · · · ·							
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	,	,					
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,	4) Claim(s) 31-36,39-46,48-53 and 58-60 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed.								
,	6) Claim(s) 31-36,39-46,48-53 and 58-60 is/are rejected.							
•	7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
, —	.,	on and/or ciconor	rrequirement.					
Applicati	on Papers							
9)☐ The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Inform	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F r No(s)/Mail Date		4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date	⁻ O-152)			

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments with respect to claims 31-36,39-46,48-53 and 58-60 have been considered but are most in view of the new ground(s) of rejection.
- 2. It should be noted that while Rajasekharan fails to specifically recite that the validation key is based on a URL, such a relationship is suggested an is likely present in Rajasekharan. Rajasekharan discloses that the verification key is a "digital signature corresponding to the source" (Col 5, Lines 27-29). Since the source is "a server computer system accessed via a network, such as the Internet" (Col 4, Lines 6-8), it has a URL. Since the digital signature is unique to that source, it has a one-to-one relationship with the URL, and is very likely to be based on that URL. Nonetheless, in the interest of expedited prosecution, a reference teaching creation of a digital certificate based on and containing a URL has been cited below.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-36,39-41,44-46, 48-51, and 58-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rajasekharan et al. (US 6,480,961) in view of Xie et al. (US 6,606,393).

5. With regard to claim 31, Rajasekharan discloses a method for validating a data stream comprising:

generating a unique validation key associated with the data stream (source indicator), the unique validation key to map the data stream with a source (Col 5, Lines 28-38), wherein the unique validation key is generated based on an encryption key (digital signature is generated using DSA/RSA)(Col 4, Lines 25-27 and Col 5, Lines 27-29);

generating the data stream (data stream is sent)(Col 4, Lines 51-55); storing the unique validation key (authorization data is stored at server)(Col 4, Lines 8-12); and

sending the unique validation key (authorization data is sent to client)(Col 4, Line 6) and data stream (Col 4, Lines 51-55) to a destination (client). Rajasekharan fails to disclose embedding the validation key in the data stream to form a validation key embedded data stream or that the validation key is generated based on a URL.

Xie discloses several methods of authenticating digital messages that are old and well known in the art. Xie further discloses that embedding validation information within the digital stream is advantageous since removal of embedded information may

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destroy or alter the content. This provides better security that sending the validation data outside of the data stream (Col 1, Lines 27-45).

Abdulhayoglu discloses a similar system for verifying the source of received data based on a digital certificate included with the data. Abdulhayoglu teaches use of a digital certificate that includes a URL of the data source (¶84). This allows the recipient to verify that the source of the data is at that URL. This would have been an advantageous addition to the system disclosed by Rajasekharan, since it would have allowed a recipient of the data stream to be assured that the URL from which the data stream is coming is the URL that was requested.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to generate the validation key based on the URL of the data source and embed the validation key in the data stream to form a validation key embedded data stream in order to provide enhanced security since embedded validation keys would be much more difficult to remove from the data stream without corrupting it, ensuring that the source and URL could be validated by the recipient of the data stream.

6. With regard to claim 32, Rajasekharan further discloses that the source is any one of a source of audio information, video information, audio-video information and the URL (Col 4, Lines 1-2).

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7. With regard to claim 33, Rajasekharan further discloses that generating the validation key associated with the data stream comprises generating the unique validation key in response to a request for data to be retrieved from the URL. Since the source of the unique validation key is a server computer accessed via the Internet (Col 4, Lines 6-9), it must be accessed via a URL prior to sending the authorization data to the client.

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- 8. With regard to claim 34, Rajasekharan further discloses that generating the unique validation key associated with the data stream, said unique validation key to map the data stream with a source, comprises: generating the unique validation key (Col 5, Lines 28-38) and sending the unique validation key to the destination (Col 4, Line 6).
- 9. With regard to claim 35, Rajasekharan further discloses that the data stream comprises any one of encoded video information, encoded audio information, encoded audio-video information, and encoded information from the URL (Col 4, Lines 1-2).
- 10. With regard to claim 36, Rajasekharan further discloses receiving the validation key at the destination (Col 4, Line 6); sampling the unique validation key embedded data stream at the destination to detect the unique validation key (validation key is detected and checked) (Col 4, Lines 24-28).

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11. With regard to claim 39, Rajasekharan discloses:

receiving a unique validation key associated with the data stream (Col 4, Line 4), the unique validation key to map the data stream with a source (Col 5, Lines 28-38); receiving the data stream (Col 4, Lines 51-52), wherein the unique validation key is generated based on an encryption key (digital signature is generated using DSA/RSA)(Col 4, Lines 25-27 and Col 5, Lines 27-29);

detecting the unique validation key and validating the data stream in response to detecting the validation key (key is detected and checked)(Col 4, Lines 24-28). The validation key must be stored since the client receives it and analyzes it. Rajasekharan fails to disclose that the validation key is embedded in the data stream or that the validation key is generated based on a URL.

Xie discloses several methods of authenticating digital messages that are old and well known in the art. Xie further discloses that embedding validation information within the digital stream is advantageous since removal of embedded information may destroy or alter the content. This provides better security that sending the validation data outside of the data stream (Col 1, Lines 27-45).

Abdulhayoglu discloses a similar system for verifying the source of received data based on a digital certificate included with the data. Abdulhayoglu teaches use of a digital certificate that includes a URL of the data source (¶84). This allows the recipient to verify that the source of the data is at that URL. This would have been an advantageous addition to the system disclosed by Rajasekharan, since it would have

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allowed a recipient of the data stream to be assured that the URL from which the data stream is coming is the URL that was requested.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to generate the validation key based on the URL of the data source and embed the validation key in the data stream in order to provide enhanced security since embedded validation keys would be much more difficult to remove from the data stream without corrupting it, ensuring that the source and URL could be validated by the recipient of the data stream.

- 12. With regard to claim 40, Rajasekharan further discloses that the source is any one of a source of audio information, a source of video information, a source of audio-video information and the URL (Col 4, Lines 1-2).
- 13. With regard to claim 41, Rajasekharan further discloses requesting data to be retrieved from the URL. Since the source of the validation key is a server computer accessed via the Internet (Col 4, Lines 6-9), it must be accessed via a URL prior to sending the authorization data to the client.
- 14. Claims 42,43,52,53, and 55-56 are rejected under 35 U.S.C. 103(a) as being unpatentable Rajasekharan et al. (US 6,480,961) in view of Xie et al. (US 6,606,393) in further view of Willis, Jr. et al. (US 6,738,815).

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15. With regard to claims 42,43,52, and 53, while the system disclosed by Rajasekharan in view of Xie shows substantial features of the claimed invention (discussed above), it fails to disclose generating an error if the unique validation key is not detected in the data stream or writing the error to a log file. Rajasekharan does disclose checking the validation key to determine is the source is an authorized source (Col 4, Lines 24-28). Xie discloses that removing embedded validation keys may destroy or at least damage the underlying data (Xie, Col 1, Lines 36-36)

Willis, Jr. teaches the creation of a log file at a client and writing errors to the log file when they occur (Col 6, Lines 44-50). Willis, Jr. further discloses that the logs can be uploaded to a server as well (Col 6, Lines 49-50). This would have been an advantageous addition to the system disclosed by Rajasekharan in view of Xie since generating an error and storing it in a log file would have allowed the server, client, and/or users to be notified that the validation key was not found, and that the data may be invalid.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to generate an error and write it to a log file if the validation data is not detected in the data stream. This would have allowed the server, client, and/or users to be notified that the validation keys were not found and that the data may be invalid.

16. Claims 44-46 and 48 are rejected for the same reasons cited above regarding claims 31,32,35, and 33, respectively, since they recite substantially identical subject

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matter. A database is required in order to store the validation key at the server, and is therefore inherent. A processor and memory are inherent components of both the server and client devices since they are computers.

- 17. Claims 49 and 50 are rejected for the same reasons cited above regarding claims 31 and 32, respectively, since they recite substantially identical subject matter. A bus, processor, and memory containing instructions are inherent components of both the server and client devices since they are computers.
- 18. With regard to claim 49, Rajasekharan discloses a system comprising:

a key generation module (KGM) to generate a unique validation key associated with a data stream (source indicator), the unique validation key to map the data stream with a source (Col 5, Lines 28-38), wherein the unique validation key is generated based on an encryption key (digital signature is generated using DSA/RSA)(Col 4, Lines 25-27 and Col 5, Lines 27-29);

a client to receive the validation key and data stream (Col 4, Line 6);

and a database couples with the client to store the unique validation key (client stores validation key to perform periodic checks) (Col 4, Line 65 to Col 5, Line 3).

Rajasekharan fails to disclose embedding the validation key in the data stream to form a validation key embedded data stream or that the validation key is generated based on a URL.

Xie discloses several methods of authenticating digital messages that are old and well known in the art. Xie further discloses that embedding validation information within the digital stream is advantageous since removal of embedded information may destroy or alter the content. This provides better security that sending the validation data outside of the data stream (Col 1, Lines 27-45).

Abdulhayoglu discloses a similar system for verifying the source of received data based on a digital certificate included with the data. Abdulhayoglu teaches use of a digital certificate that includes a URL of the data source (¶84). This allows the recipient to verify that the source of the data is at that URL. This would have been an advantageous addition to the system disclosed by Rajasekharan, since it would have allowed a recipient of the data stream to be assured that the URL from which the data stream is coming is the URL that was requested.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to generate the validation key based on the URL of the data source and embed the validation key in the data stream in order to provide enhanced security since embedded validation keys would be much more difficult to remove from the data stream without corrupting it, ensuring that the source and URL could be validated by the recipient of the data stream.

19. With regard to claim 50, Rajasekharan further discloses that the source is any one of a source of audio information, video information, audio-video information and the URL (Col 4, Lines 1-2).

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20. With regard to claim 51, Rajasekharan further discloses that the client requests data to be retrieved from the URL. Since the source of the data is a server computer accessed via the Internet (Col 4, Lines 6-9), it must be accessed via a URL prior to sending the data stream to the client.

- 21. Claims 58 and 60 are rejected for the same reasons cited above regarding claims 31 and 35, respectively, since they recite substantially identical subject matter. A machine-readable medium containing instructions to perform the methods is inherent in the system disclosed by Rajasekharan since the system is implemented using computers.
- 22. With regard to claim 59, Rajasekharan further discloses sampling the data stream to detect the unique validation key embedded in the data stream (Col 4, Lines 24-28).

Conclusion

23. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron Strange whose telephone number is 571-272-3959. The examiner can normally be reached on M-F 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on 571-272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AS 2/14/2006

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